

B1

- (b) isolating the polypeptide from the culture.

B2

13. (Amended) An isolated polypeptide comprising:

- (a) the amino acid sequence as set forth in SEQ ID NO: 5; or
(b) the amino acid sequence encoded by the DNA insert in ATCC Deposit No. PTA-

1755.

B3

14. (Amended) An isolated polypeptide comprising:

- (a) the amino acid sequence as set forth in SEQ ID NO: 6, optionally further comprising an amino-terminal methionine;
(b) an amino acid sequence for an ortholog of SEQ ID NO: 5; or
(c) a fragment of the amino acid sequence set forth in SEQ ID NO: 5 comprising at least about 25 amino acid residues, wherein the fragment has an activity of the polypeptide set forth in SEQ ID NO: 5, or is antigenic.

B4

15. (Amended) An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO: 5 with at least one modification that is a conservative amino acid substitution, C-terminal truncation, or N-terminal truncation, wherein the polypeptide has an activity of the polypeptide set forth in SEQ ID NO: 5.

16. (Amended) An isolated polypeptide encoded by a nucleic acid molecule comprising:

- (a) the nucleotide sequence as set forth in SEQ ID NO: 4;
(b) the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755; or
(c) a nucleotide sequence encoding the polypeptide as set forth in SEQ ID NO: 5;
wherein the polypeptide has an activity of the polypeptide set forth in SEQ ID NO: 5.

Please add the following claims:

57. A polypeptide produced by a process comprising:

- (a) culturing a host cell containing a vector comprising a nucleic acid molecule having a nucleotide sequence of a region of the nucleotide sequence of SEQ ID NO: 4 or a region of the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755, wherein the nucleic acid molecule encodes a polypeptide fragment of at least about 25 amino acid residues, and wherein the polypeptide fragment has an activity of the encoded polypeptide as set forth in SEQ ID NO: 5, under suitable conditions to express the polypeptide, and optionally,
- (b) isolating the polypeptide from the culture.

58. A polypeptide produced by a process comprising:

- B4
Sub D3
- (a) culturing a host cell containing a vector comprising a nucleic acid molecule having a nucleotide sequence encoding a polypeptide having the amino acid sequence as set forth in SEQ ID NO: 5 with at least one modification that is a conservative amino acid substitution, C-terminal truncation, or N-terminal truncation, wherein the polypeptide has an activity of the polypeptide set forth in SEQ ID NO: 5, under suitable conditions to express the polypeptide, and optionally
- (b) isolating the polypeptide from the culture.

59. The polypeptide of any of Claims 9, 57, or 58, wherein the host cell is a eukaryotic cell.

60. The polypeptide of any of Claims 9, 57, or 58, wherein the host cell is a prokaryotic cell.

61. An isolated polypeptide encoded by a nucleic acid molecule comprising a nucleotide sequence of a region of the nucleotide sequence of SEQ ID NO: 4 or a region of the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755, wherein the nucleic acid molecule encodes a polypeptide fragment of at least about 25 amino acid residues, and wherein the polypeptide fragment has an activity of the encoded polypeptide as set forth in SEQ ID NO: 5.

Sub D4